

# Paints and Allied Products: 2005

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## Current Industrial Reports

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**SUMMARY OF FINDINGS.** In 2005, total manufacturers' estimated shipments of paint and

allied products amounted to \$19,868.1 million, an increase of 3.3 percent from the 2004 shipments of \$19,233.2 million. Shipments of architectural coatings increased 3.4 percent to \$8,916.0 million in 2005, from \$8,623.3 million in 2004. Shipments of OEM coatings amounted to \$5,986.3 million in 2005, an increase of 2.0 percent, from the 2004 shipments' total of \$5,867.3 million. Shipments of special-purpose coatings increased 3.1 percent to \$3,635.4 million in 2005, from \$3,525.8 million in 2004. Shipments of miscellaneous allied paint products amounted to \$1,330.4 million in 2005, an increase of 9.3 percent, from the \$1,216.7 million in 2004.

For general CIR information, explanation of general terms and historical note, see the appendix.

Address inquiries concerning these data to Primary Goods Industries Branch, Manufacturing and Construction Division, (MCD), Washington, DC 20233-6900 or call Betty Sutter, 301-763-5164.  
For mail or fax copies of this publication, please contact the Information Services Center, MCD, Washington, DC 20233-6900, or call 301-763-4673.

# U S C E N S U S B U R E A U

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U.S. Department of Commerce  
Economics and Statistics Administration  
U.S. CENSUS BUREAU

Table 2. Quantity and Value of Shipments of Paint and Allied Products: 2005 and 2004  
[Quantity in thousand of gallons. Value in thousand of dollars]

| Product code | Product description  | 2005      |            | 2004      |            |
|--------------|--|-----------|------------|-----------|------------|
|              |  | Quantity  | Value      | Quantity  | Value      |
| 325510       | Paint and allied products 1/.....  | 1,535,551 | 19,936,631 | 1,540,383 | 19,300,551 |
| 3255101      | Architectural coatings.....  | 807,395   | 9,060,961  | 816,668   | 8,763,513  |
|              | Exterior solvent-type.....   | 80,161    | 987,345    | 80,084    | 959,857    |
| 3255101111   | Solvent thinned paints and tinting bases, including barn and roof paints.....                | 23,706    | 257,408    | 22,197    | 240,654    |
| 3255101115   | Solvent thinned enamels and tinting bases, including exterior-interior floor enamels.....    | 15,040    | 239,126    | 16,367    | 243,464    |
| 3255101119   | Solvent thinned undercoaters and primers.....  | 10,159    | 120,862    | 10,293    | 122,244    |
| 3255101121   | Solvent thinned clear finishes and sealers.....  | 5,649     | 77,582     | 5,712     | 73,652     |
| 3255101125   | Solvent thinned stains, including shingle and shake.....                                     | 15,419    | 203,923    | 15,529    | 199,301    |
| 3255101129   | Other exterior solvent thinned coatings, including bituminous paints.....                    | 10,188    | 88,444     | 9,986     | 80,542     |
|              | Exterior water-type.....   | 199,327   | 2,328,844  | 201,600   | 2,238,371  |
| 3255101131   | Water thinned paints and tinting bases, including barn and roof paints.....                  | 117,927   | 1,418,266  | 121,358   | 1,409,008  |
| 3255101135   | Water thinned exterior-interior deck and floor enamels.....                                  | 4,101     | 42,715     | 3,742     | 39,247     |
| 3255101139   | Water thinned undercoaters and primers.....  | 28,051    | 310,902    | 27,665    | 293,220    |
| 3255101141   | Water thinned stains and sealers.....  | 22,890    | 288,195    | 22,305    | 266,552    |
| 3255101145   | Other exterior water thinned coatings.....   | 26,358    | 268,766    | 26,530    | 230,344    |
|              | Interior solvent-type.....   | 58,827    | 729,275    | 64,040    | 736,543    |
| 3255101211   | Flat solvent thinned wall paint and tinting bases, including mill white paints.....          | 2,623     | 73,138     | r/        | 70,830     |
| 3255101215   | Gloss and quick drying enamels and other gloss solvent thinned paints and enamels.....       | 3,777     | 54,056     | 3,413     | 48,629     |
| 3255101219   | Semigloss, eggshell, satin solvent thinned paints, and tinting bases.....                    | 13,130    | 183,647    | 13,813    | 180,926    |
| 3255101221   | Solvent thinned undercoaters and primers.....  | 22,761    | 234,292    | 27,405    | 262,249    |
| 3255101225   | Solvent thinned clear finishes and sealers.....  | (D)       | (D)        | (D)       | (D)        |
| 3255101229   | Solvent thinned stains.....  | 1,368     | 17,578     | r/        | 18,199     |
| 3255101231   | Other interior solvent thinned coatings.....   | (D)       | (D)        | (D)       | (D)        |
|              | Interior water-type.....   | 460,121   | 4,916,755  | 462,203   | 4,742,695  |
| 3255101235   | Flat water thinned paints and tinting bases.....   | 181,837   | 1,584,349  | 181,060   | 1,549,590  |
| 3255101239   | Semigloss, eggshell, satin, and other water thinned paints and tinting bases.....            | 203,305   | 2,451,007  | 197,272   | 2,306,298  |
| 3255101241   | Water thinned undercoaters and primers.....  | 35,537    | 299,157    | 45,975    | 387,292    |
| 3255101245   | Other interior water thinned coatings, stains, and sealers.....                              | 39,442    | 582,242    | 37,896    | 499,515    |
| 3255101249   | Architectural lacquers.....  | 6,936     | 73,344     | 6,301     | 63,170     |
| 3255101YVW   | Architectural coatings, n.s.k. ....  | 2,023     | 25,398     | 2,440     | r/ 22,877  |
| 3255104      | Product finishes for original equipment manufacturers (OEM), excluding marine coatings.....  | 398,673   | 5,944,726  | r/        | 5,826,536  |
| 3255104111   | Automobile, light truck, van, and sport utility vehicle finishes.....                        | 54,521    | 1,140,024  | r/        | 1,133,220  |
| 3255104121   | Automobile parts finishes.....   | 5,959     | 198,532    | r/        | 201,452    |
| 3255104131   | Heavy duty truck, bus, and recreational vehicle finishes.....                                | 7,554     | 200,291    | r/        | 177,175    |
| 3255104141   | Other transportation equipment finishes, including aircraft and railroad.....                | 9,552     | 156,077    | r/        | 131,708    |
| 3255104211   | Appliance, heating equipment, and air-conditioner finishes.....                              | 8,255     | 94,017     | r/        | 104,749    |
| 3255104215   | Wood furniture, cabinet, and fixture finishes.....   | 49,231    | 590,472    | 44,921    | 514,628    |
| 3255104219   | Wood and composition board flat stock finishes.....  | 11,304    | 132,197    | 11,976    | 126,559    |
| 3255104221   | Metal building product finishes, including coatings for aluminum extrusions and siding.....  | 32,502    | 608,627    | r/        | 644,582    |
| 3255104225   | Container and closure finishes.....  | 35,043    | 462,090    | r/        | 439,994    |
| 3255104229   | Machinery and equipment finishes, including road building equipment and farm implements..... | 20,229    | 526,367    | r/        | 511,396    |
| 3255104231   | Nonwood furniture and fixture finishes, including business equipment finishes.....           | 49,174    | 525,670    | 43,807    | 465,323    |
| 3255104235   | Paper, paper board, film, and foil finishes, excluding pigment binders.....                  | 14,752    | 134,762    | 15,545    | 130,679    |
| 3255104239   | Electrical insulating coatings.....  | 423       | 14,693     | 921       | 16,295     |
|              | Powder coatings.....   | 64,773    | 746,175    | r/        | 834,949    |
| 3255104241   | Appliance powder coatings 2/.....  | 7,905     | 167,027    | r/        | 177,088    |
| 3255104245   | Automotive powder coatings 2/.....   | 3,199     | 66,015     | r/        | 97,479     |
| 3255104249   | Architectural powder coatings (such as aluminum extrusions) 2/.....                          | 1,558     | 18,145     | 1,766     | 20,053     |
| 3255104251   | Lawn and garden powder coatings 2/.....  | 1,557     | 29,681     | 1,752     | 33,129     |
| 3255104255   | General metal finishing powder coatings 2/.....  | 19,357    | 309,712    | r/        | 349,893    |
| 3255104259   | Thermoset functional powder coatings (for pipe, rebar, electrical insulation, etc.) 2/.....  | (D)       | (D)        | (D)       | (D)        |

Table 1. Summary of Estimated United States Total Quantity and Value of Shipments of Paint and Allied Products: 2000-2005  
[Quantity in millions of gallons. Value in millions of dollars]

| Year      | Total    |          | Architectural coatings |         | Product coatings OEM |         | Special-purpose coatings |         | Miscellaneous allied paint products |         |
|-----------|----------|----------|------------------------|---------|----------------------|---------|--------------------------|---------|-------------------------------------|---------|
|           | Quantity | Value    | Quantity               | Value   | Quantity             | Value   | Quantity                 | Value   | Quantity                            | Value   |
| 2005..... | 1,529.8  | 19,868.1 | 794.5                  | 8,916.0 | 401.5                | 5,986.3 | 155.8                    | 3,635.4 | 178.0                               | 1,330.4 |
| 2004..... | 1,534.3  | 19,233.2 | 803.6                  | 8,623.3 | r/ 404.2             | 5,867.3 | r/ 154.5                 | 3,525.8 | r/ 171.9                            | 1,216.7 |
| 2003..... | 1,473.5  | 18,092.0 | 762.0                  | 8,006.2 | 398.5                | 5,541.4 | 165.1                    | 3,369.0 | 148.0                               | 1,175.3 |
| 2002..... | 1,433.9  | 17,465.8 | 709.8                  | 7,610.1 | 408.7                | 5,556.2 | 172.2                    | 3,153.9 | 143.2                               | 1,145.6 |
| 2001..... | 1,392.9  | 17,274.7 | 667.0                  | 7,038.3 | 406.5                | 5,566.6 | 161.2                    | 3,408.1 | 158.2                               | 1,261.7 |
| 2000..... | 1,467.2  | 17,724.7 | 650.6                  | 6,461.4 | 453.4                | 6,149.2 | 182.4                    | 3,607.0 | 180.8                               | 1,507.1 |

r/Revised by 5 percent or more from previously published data.

Note: Data for 2000 through 2005 are estimates of the total U.S. value of shipments of paint, varnish, and lacquer. These estimates were developed by increasing the product class totals shown in Table 2 by adjustment factors. For 2002 through 2005 these factors are: 0.984 for "Architectural coatings," 1.007 for "Product coatings OEM," 1.001 for "Special-purpose coatings," and 1.024 for "Miscellaneous allied paint products." For example, the quantity and value of OEM coatings for 2004 shown in Table 2 amounted to 401,438 and \$5,826,536 respectively. Adjusting these data by the factor of 1.007 (multiplying 401,438 and 5,826,536 by 1.007) equals the adjusted and rounded quantity and value of 404.2 and \$5,867.3 shown in Table 1. For 2000 to 2001, the adjustment factors are: 1.002 for "Architectural coatings," 0.993 for "Product coatings OEM," 1.051 for "Special-purpose coatings," and 1.048 for "Miscellaneous allied paint products." These factors are used because the annual survey panel was selected to measure approximately 95 percent of the total shipments in the paint industry (NAICS 325510 former SIC 2851). The adjustment factors (based on the 2002 Economic Census, Manufacturing Sector's relationships) bring each product class value up to 100 percent. Quarterly data for 2005 and 2004 reflect the adjusted totals in Table 1 and are shown in Table 3 alone with the quarterly data originally published in the Current Industrial Reports quarterly series MQ325F, "Paint, Varnish, and Lacquer."

Table 2. Quantity and Value of Shipments of Paint and Allied Products: 2005 and 2004  
[Quantity in thousand of gallons. Value in thousand of dollars]

| Product code | Product description  | 2005     |           | 2004     |           |
|--------------|--|----------|-----------|----------|-----------|
|              |  | Quantity | Value     | Quantity | Value     |
| 3255104261   | Thermoplastic powder coatings (all) 2/.....  | (D)      | 89,803    | (D)      | (D)       |
| 3255104263   | Other powder coatings.....   | (D)      | (D)       | (D)      | (D)       |
| 3255104265   | Other industrial product finishes.....   | 34,089   | 392,444   | r/       | 37,708    |
| 3255104YVW   | Product finishes for original equipment manufacturers (OEM),<br>excluding marine coatings, n.s.k. ....   | 1,312    | 22,288    | r/       | 2,895     |
| 3255107      | Special-purpose coatings, including all marine coatings.....   | 155,629  | 3,631,741 | r/       | 154,376   |
|              | Industrial new construction and maintenance paints (especially<br>formulated coatings for special conditions of industrial plants<br>and/or facilities requiring protection against extreme tempera-<br>tures, fungi, chemicals, fumes, etc.): |          |           |          | 3,522,314 |
| 3255107111   | Interior.....  | 16,416   | 265,574   | r/       | 14,858    |
| 3255107115   | Exterior.....  | 30,161   | 658,463   | r/       | 29,650    |
| 3255107121   | Traffic marking paints (all types; shelf goods and highway<br>department).....   | 30,799   | 238,700   | r/       | 29,189    |
| 3255107131   | Automotive, other transportation and machinery refinish<br>paints and enamels, including primers.....  | 54,139   | 2,015,606 |          | 55,904    |
| 3255107141   | Marine paints, ship and off-shore facilities and shelf goods<br>for both new construction and marine refinish and<br>maintenance, excludes spar varnish.....   | 12,510   | 253,929   |          | 12,342    |
| 3255107151   | Marine paints for yacht and pleasure craft, new construction,<br>refinish, and maintenance.....  | 83       | 2,077     |          | 100       |
| 3255107161   | Aerosol-paint concentrates produced for packaging in aerosol<br>containers.....  | 10,298   | 151,877   |          | 11,721    |
| 3255107YVW   | Special-purpose coatings, n.s.k. ....  | 1,223    | 45,515    | r/       | 612       |
| 325510B      | Miscellaneous allied paint products.....   | 173,854  | 1,299,203 | r/       | 167,901   |
| 325510B111   | Paint and varnish removers.....  | 7,373    | 52,975    | r/       | 8,264     |
| 325510B121   | Thinners for lacquers and other solvent based paint products.....  | 38,481   | 190,320   | r/       | 40,646    |
| 325510B131   | Pigment dispersions.....   | 34,481   | 507,710   |          | 31,313    |
| 325510B141   | Other miscellaneous allied paint products, including brush<br>cleaners, ink vehicles, putty and glazing compounds, etc. ....   | 93,102   | 525,444   | r/       | 87,258    |
| 325510BYVW   | Miscellaneous allied paint products, n.s.k. ....   | 417      | 22,754    |          | 420       |

D Withheld to avoid disclosing data for individual companies; data are included in higher level totals. n.s.k. Not specified by kind.  
r/Revised by 5 percent or more from previously published data.

1/Represents total shipments for those establishments producing paint and allied products that have 20 or more employees. These establishments represent approximately 95 percent of the total value of shipments for NAICS industry 325510, Paint, varnishes, lacquers, enamels, and allied products, based on relationships observed in the 2002 Economic Census, Manufacturing sector's final report.

2/Data for powder coatings are collected in pounds and converted to gallons by using a conversion factor of 5 (5 lbs. = 1 gallon). Data collected in pounds amounted to 323,865 thousand pounds in 2005 and 344,155 thousand pounds in 2004.

Table 3. Quantity and Value of Shipments of Paint, Varnish, and Lacquer by Quarter: 2005 and 2004  
[Quantity in thousands of gallons. Value in thousands of dollars]

| As revised          |           |            |                        |           |                      |           |                          |           |
|---------------------|-----------|------------|------------------------|-----------|----------------------|-----------|--------------------------|-----------|
| Quarter and year    | Total     |            | Architectural coatings |           | Product coatings OEM |           | Special-purpose coatings |           |
|                     | Quantity  | Value      | Quantity               | Value     | Quantity             | Value     | Quantity                 | Value     |
| <b>2005</b>         |           |            |                        |           |                      |           |                          |           |
| Total.....          | 1,351,724 | 18,537,698 | 794,476                | 8,915,986 | 401,463              | 5,986,339 | 155,785                  | 3,635,373 |
| Fourth quarter..... | 306,998   | 4,249,537  | 174,237                | 1,938,121 | 98,687               | 1,484,522 | 34,074                   | 826,894   |
| Third quarter.....  | 357,356   | 4,951,652  | 212,485                | 2,392,741 | 101,740              | 1,562,654 | 43,131                   | 996,257   |
| Second quarter..... | 387,991   | 5,274,808  | 233,500                | 2,658,601 | 107,094              | 1,578,439 | 47,397                   | 1,037,768 |
| First quarter.....  | 299,379   | 4,061,701  | 174,254                | 1,926,523 | 93,942               | 1,360,724 | 31,183                   | 774,454   |
| <b>2004</b>         |           |            |                        |           |                      |           |                          |           |
| Total.....          | 1,362,380 | 18,016,455 | 803,602                | 8,623,297 | 404,247              | 5,867,321 | 154,531                  | 3,525,837 |
| Fourth quarter..... | 304,549   | 4,053,376  | 177,955                | 1,929,415 | 95,157               | 1,396,407 | 31,437                   | 727,554   |
| Third quarter.....  | 361,253   | 4,780,154  | 217,017                | 2,352,945 | 102,320              | 1,469,902 | 41,916                   | 957,307   |
| Second quarter..... | 376,317   | 4,932,627  | 223,729                | 2,376,712 | 104,409              | 1,515,363 | 48,179                   | 1,040,552 |
| First quarter.....  | 320,261   | 4,250,298  | 184,901                | 1,964,225 | 102,361              | 1,485,649 | 32,999                   | 800,424   |
| As published        |           |            |                        |           |                      |           |                          |           |
| Quarter and year    | Total     |            | Architectural coatings |           | Product coatings OEM |           | Special-purpose coatings |           |
|                     | Quantity  | Value      | Quantity               | Value     | Quantity             | Value     | Quantity                 | Value     |
| <b>2005</b>         |           |            |                        |           |                      |           |                          |           |
| Total.....          | 1,445,125 | 19,472,717 | 857,673                | 9,291,411 | 413,121              | 6,465,174 | 174,331                  | 3,716,132 |
| Fourth quarter..... | 327,780   | 4,468,258  | 188,097                | 2,019,729 | 101,553              | 1,603,266 | 38,130                   | 845,263   |
| Third quarter.....  | 382,347   | 5,199,529  | 229,387                | 2,493,492 | 104,694              | 1,687,648 | 48,266                   | 1,018,389 |
| Second quarter..... | 415,318   | 5,536,064  | 252,074                | 2,770,547 | 110,204              | 1,704,695 | 53,040                   | 1,060,822 |
| First quarter.....  | 319,680   | 4,268,866  | 188,115                | 2,007,643 | 96,670               | 1,469,565 | 34,895                   | 791,658   |
| <b>2004</b>         |           |            |                        |           |                      |           |                          |           |
| Total.....          | 1,410,076 | 18,253,979 | 809,031                | 8,627,816 | 427,785              | 5,937,223 | 173,260                  | 3,688,940 |
| Fourth quarter..... | 315,102   | 4,104,679  | 179,157                | 1,930,426 | 100,698              | 1,413,043 | 35,247                   | 761,210   |
| Third quarter.....  | 373,757   | 4,843,184  | 218,483                | 2,354,178 | 108,278              | 1,487,414 | 46,996                   | 1,001,592 |
| Second quarter..... | 389,747   | 5,000,062  | 225,241                | 2,377,958 | 110,488              | 1,533,417 | 54,018                   | 1,088,687 |
| First quarter.....  | 331,470   | 4,306,054  | 186,150                | 1,965,254 | 108,321              | 1,503,349 | 36,999                   | 837,451   |

See note at end of Table 1.



**Table 5. Comparison of North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Export Codes and HTSUSA Import Codes: 2005**

| Product code              | Product description                                 | Export code 1/ | Import code 2/ |
|---------------------------|---|----------------|----------------|
| 3255101100,<br>4100, 7100 | Paint, varnish, and lacquers.....                   | 3208.10.0000   | 3208.10.0000   |
|                           |   | 3208.20.0000   | 3208.20.0000   |
|                           |   | 3208.90.0000   | 3208.90.0000   |
|                           |   | 3209.10.0000   | 3209.10.0000   |
|                           |   | 3209.90.0000   | 3209.90.0000   |
| 325510B111,<br>B121       | Paint and varnish removers, including thinners..... | 3814.00.0000   | 3814.00.1000   |
|                           |   |                | 3814.00.2000   |
|                           |   |                | 3814.00.5010   |
|                           |   |                | 3814.00.5090   |
| 325510B141                | Other miscellaneous allied paint products.....      | 3210.00.0000   | 3210.00.0000   |
|                           |   | 3211.00.0000   | 3211.00.0000   |
|                           |   | 3214.10.0020   | 3214.10.0020   |
|                           |   | 3214.10.0090   | 3214.10.0090   |

1/Source: 2005 edition, Harmonized System-based Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported from the United States.

2/Source: Harmonized Tariff Schedule of the United States, Annotated (2005).

# Appendix.

## General CIR Survey Information, Explanation of General Terms and Historical Note

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### GENERAL

The CIR program has been providing monthly, quarterly, and annual measures of industrial activity for many years. Since 1904, with its cotton and fats and oils surveys, the CIR program has formed an essential part of an integrated statistical system involving the quinquennial economic census, manufacturing sector, and the annual survey of manufactures. The CIR surveys, however, provide current statistics at a more detailed product level than either of the other two statistical programs.

The primary objective of the CIR program is to produce timely, accurate data on production and shipments of selected products. The data are used to satisfy economic policy needs and for market analysis, forecasting, and decision making in the private sector. The product-level data generated by these surveys are used extensively by individual firms, trade associations, and market analysts in planning or recommending marketing and legislative strategies, particularly if their industry is significantly affected by foreign trade. Although production and shipments information are the two most common data items collected, the CIR program collects other measures also such as inventories, orders, and consumption. These surveys measure manufacturing activity in important commodity areas such as textiles and apparel, chemicals, primary metals, computer and electronic components, industrial equipment, aerospace equipment, and consumer goods.

The CIR program uses a unified data collection, processing, and publication system. The U.S. Census Bureau updates the survey panels for most reports annually and reconciles the estimates to the results of the broader-based annual survey of manufactures and the economic census, manufacturing sector. The manufacturing sector provides a complete list of all producers of the products covered by the CIR program and serves as the primary source for CIR sampling. Where a small number of producers exist, CIR surveys cover all known producers of a product. However, when the number of producers is too large, cutoff and random sampling techniques are used. Surveys are continually reviewed and modified to provide the most up-to-date information on products produced. The CIR program includes a group of mandatory and voluntary surveys. Typically the monthly and quarterly surveys are conducted on a voluntary basis. Those companies that choose not to respond to the voluntary surveys are required to submit a mandatory annual counterpart corresponding to the more frequent survey.

### NORTH AMERICAN INDUSTRY CLASSIFICATION SYSTEM (NAICS), 1997

The adoption of the North American Industry Classification System (NAICS) in the 1997 Economic Census has had a major impact on the comparability of current and historic data. Approximately half of the industries in the manufacturing sector of NAICS do not have comparable industries in the Standard Industrial Classification (SIC) system that was used in the past.

While most of the change affecting the manufacturing sector was change within the sector, some industries left manufacturing and others came into manufacturing. Prominent among those that left manufacturing are logging and portions of publishing. Prominent among the industries that came into the manufacturing sector are bakeries, candy stores where candy is made on the premises, custom tailors, makers of custom draperies, and tire retreading. The net effect of the classification changes are such that if the 1997 value of shipments data for all manufacturers were tabulated on an SIC basis, it would be approximately 3 percent higher.

Listed below are the NAICS sectors:

- 21 Mining
- 22 Utilities
- 23 Construction
- 31-33 Manufacturing
- 42 Wholesale Trade
- 44-45 Retail Trade
- 48-49 Transportation and Warehousing
- 51 Information
- 52 Finance and Insurance
- 53 Real Estate and Rental and Leasing
- 54 Professional, Scientific, and Technical Services
- 55 Management of Companies and Enterprises
- 56 Administrative and Support and Waste Management and Remediation Services
- 61 Educational Services
- 62 Health Care and Social Assistance
- 71 Arts, Entertainment, and Recreation
- 72 Accommodation and Foodservices
- 81 Other Services (except Public Administration)

(Not listed above are the Agriculture, Forestry, Fishing, and Hunting sector (NAICS 11), partially covered by the census of agriculture conducted by the U.S. Department of Agriculture, and the Public Administration sector (NAICS 92), covered by the census of governments conducted by the Census Bureau.)



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The 20 NAICS sectors are subdivided into 96 subsectors (three-digit codes), 313 industry groups (four-digit codes), and, as implemented in the United States, 1170 industries (five- and six-digit codes).

## FUNDING

The Census Bureau funds most of the surveys. However, a number of surveys are paid for either fully or partially by other Federal Government agencies or private trade associations. A few surveys are mandated, but all are authorized by Title 13 of the United States Code.

## RELIABILITY OF DATA

Survey error may result from several sources including the inability to obtain information about all cases in the survey, response errors, definitional difficulties, differences in the interpretation of questions, mistakes in recording or coding the reported data, and other errors of collection, response, coverage, and estimation. These nonsampling errors also occur in complete censuses. Although no direct measurement of the biases due to these nonsampling errors has been obtained, precautionary steps were taken in all phases of the collection, processing, and tabulation of the data in an effort to minimize their influence.

A major source of bias in the published estimates is the imputing of data for nonrespondents, for late reporters, and for data that fail logic edits. Missing figures are imputed based on period-to-period movements shown by reporting firms. A figure is considered to be an impute if the value was not directly reported on the questionnaire, directly derived from other reported items, directly available from supplemental sources, or obtained from the respondent during the analytical review phase. Imputation generally is limited to a maximum of 10 percent for any one data cell. Figures with imputation rates greater than 10 percent are suppressed or footnoted. The imputation rate is not an explicit indicator of the potential error in published figures due to nonresponse, because the actual yearly movements for nonrespondents may or may not closely agree with the imputed movements. The range of difference between the actual and imputed figures is assumed to be small. The degree of uncertainty regarding the accuracy of the published data increases as the percentage of imputation increases. Figures with imputation rates above 10 percent should be used with caution.

## DATA REVISIONS

Statistics for previous years may be revised as the result of corrected figures from respondents, late reports for which imputations were originally made, or other corrections. Data that have been revised by more than 5 percent from previously published data are indicated by footnotes.

## DISCLOSURE

The Census Bureau collects the CIR data under the authority of Title 13, United States Code, which specifies that the information can only be used for statistical purposes and cannot be published or released in any manner that would identify a person, household, or establishment. "D" indicates that data in the cell have been suppressed to avoid disclosure of information pertaining to individual companies.

## EXPLANATION OF GENERAL TERMS

**Capacity.** The maximum quantity of a product that can be produced in a plant in 1 day if operating for 24 hours. Includes the capacity of idle plants until the plant is reported to be destroyed, dismantled, or abandoned.

**Consumption.** Materials used in producing or processing a product or otherwise removing the product from the inventory.

**Exports.** Includes all types of products shipped to foreign countries, or to agents or exporters for reshipment to foreign countries.

**Gross shipments.** The quantity or value of physical shipments from domestic establishments of all products sold, transferred to other establishments of the same company, or shipped on consignment, whether for domestic or export sale or use. Shipments of products purchased for resale are omitted. Shipments of products made under toll arrangements are included.

**Interplant transfers.** Shipments to other domestic plants within a company for further assembly, fabrication, or manufacture.

**Inventories.** The quantity or value of finished goods, work in progress, and materials on hand.

**Machinery in place.** The number of machines of a particular type in place as of a particular date whether the machinery was used for production, prototype, or sampling, or was idle. Machinery in place includes all machinery set up in operating positions.

**Net receipts.** Derived by subtracting the materials held at the end of the previous month from the sum of materials used during the current month.

**Production.** The total volume of products produced, including: products sold; products transferred or added to inventory after adjustments for breakage, shrinkage, and obsolescence, plus any other inventory adjustment; and products that undergo further manufacture at the same establishment.

**Quantities produced and consumed.** Quantities of each type of product produced by a company for internal consumption within that same company.

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**Quantity and value of new orders.** The sales value of orders received during the current reporting period for products and services to be delivered immediately or at some future date. Also represents the net sales value of contract change documents that increase or decrease the sales value of the orders to which they are related, when the parties concerned are in substantial agreement as to the amount involved. Included as orders are only those that are supported by binding legal documents such as signed contracts or letter contracts.

**Quantity and value of shipments.** The figures on quantity and value of shipments represent physical shipments of all products sold, transferred to other establishments of the same company, or shipped on consignment, whether for domestic or export sale. The value represents the net sales price, f.o.b. plant, to the customer or branch to which the products are shipped, net of discounts, allowances, freight charges, and returns. Shipments to a company's own branches are assigned the same value as comparable appropriate allocation of company overhead and profit. Products bought and resold without further manufacture are excluded.

**Stocks.** Total quantity of ending finished inventory.

**Unfilled orders (backlog).** Calculated by adding net new orders and subtracting net sales from the backlog at the end of the preceding year.

#### **HISTORICAL NOTE**

Data on paint, varnish, and lacquer have been collected by the Census Bureau since 1928. Prior to 1981, a monthly sample survey, benchmarked to the census of manufactures, was used to collect these data. Beginning with data year 1981, an annual survey on paint and related products was added. The monthly survey was still conducted through 1990. Beginning in 1991, due to budget reductions, the monthly series was canceled and replaced with a similar quarterly series.

Historical data may be obtained from Current Industrial Reports (called Facts for Industry before 1959) available at your local Federal Depository Library.